Michigan Manufacturers' Guide to Environmental and Safety and Health Regulations

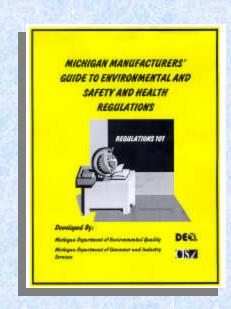


Jim Ostrowski

Michigan Department of Environmental Quality

The Guidebook

- Focus on Manufacturers
- Interdepartmental Publication
- Environmental & OSHA Regulations
- Over 400 pages
- 34 Chapters



A Cooperative Effort

Michigan Department of Environmental Quality



Michigan Department of Consumer and Industry Services

Overview

- □ Section 1: Environmental Regulations
- □ Section 2: Health & Safety Regulations
- □ Section 3: Construction & Fire Codes
- □ Appendices

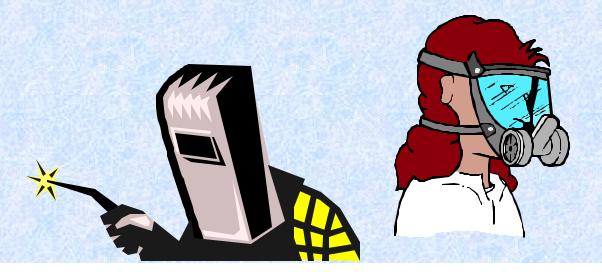


Environmental Regulations

- 1. Air
- 2. Waste
- 3. Wastewater
- 4. Storage Tanks
- 5. Cleanup
- 6. Hazardous Material Storage & Handling Secondary containment, SARA Title III, Transportation, PCBs
- 7. Hazardous Material Release Reporting Prevention, Environmental Release/Response Plans, Release Reporting/Response
- 8. Land & Water Management
- 9. Drinking Water, Radioactive Material, & Medical Waste
- 10. Geological Resources
- 11. Pollution Prevention

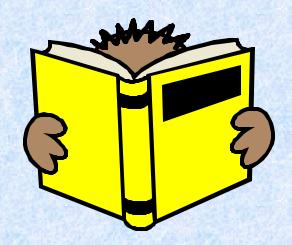
Safety & Health Regulations

- General Industry Occupational Health Standards
- General Industry Safety Standards



Chapter Format

- □ Purpose and Applicability
- □ Agencies and Their Laws & Rules
- □ Where to go For Help
- □ Regulatory Abstract



Purpose & Applicability

SECTION ONE - ENVIRONMENTAL

Purpose and Applicability

CHAPTER 1: Air Quality Regulations

Purpose and Applicability of Regulations

any manufacturers operate processes and equipment or engage in activities that emit air contaminants. Although not all of these processes and activities directly discharge contaminants to the outer air through a stack, they do release air contaminants that eventually escape the building and enter the atmosphere. Some typical sources of air pollution that are regulated include coating and degreasing operations;

combustion sources, such as boilers and incinerators; and material handling operations, such as concrete and asphalt batch plants.



In This Chapter . . .

- Purpose and Applicability of Regulations
- Agencies and Their Laws and Rules

The Regulatory Summary

Agencies and Their Laws and Rules

Several different agencies are involved with overseeing proper waste management. State agencies include the Waste Management (WMD), Surface Water Quality (SWQD), Air Quality (AQD), and Storage Tank (STD) Divisions of the Michigan Department of Environmental Quality (DEQ); Department of Consumer and Industry Services (CIS); and the Michigan State Police. Federal agencies include the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Transportation (USDOT). In addition, local entities including wastewater treatment plant authorities, local fire departments, and county health departments may have jurisdiction.

Where To Go For Help

contact SUBJECT Storm water discharge permits CONTACT DEQ, Surface Water Quality Division, Storm Water & Remedial Action Unit TELEPHONE. (517) 241-8993 phone # WEB SITE www.deg.state.mi.us/swg **PUBLICATIONS** When it Rains it Drains - EPA publication. Notice of Coverage (NOC) For National Pollulant Discharge Elimination System. (NPDES) Storm Water Discharges From Construction Activities (EQP 4661). 3. Notice of Intent (NOI) For Coverage Under the National Pollutant Discharge. **publications** Elimination System (NPDES) Storm Water Discharges Associated With Industrial. Activity (EQP 4664) available Guidebook of Best Management Practices for Michigan Watershed Nonpoint. Sources 5. Sample Storm Water Pollution Prevention Plans 6. Notice of Termination (NOT) For National Pollutant Discharge Elimination System (NPDES) Storm Water Discharges From Construction Activities (EQP 4662). Michigan's Permit-by-Aute For Construction Activities Aute 323.2190. 8. Industrial Storm Water Operator Training Manual Construction Site Storm Water Certified Training Manual.

Regulatory Abstract

4.1 Underground Storage Tanks

Provides Summary of Regs

Michigan has approximately 24,624 USTs installed at 8,580 ft a large portion of these tanks. Many of these USTs have released or will release petroleum and other regulated chemicals into the environment through spills, overfills, or failures in the tank and piping system. The extensive contamination of solls and groundwater due to LUSTs is a serious problem nationwide.

A regulated UST is defined as a UST or combination of USTs and underground connected piping that have at least 10% of their volume underground and are, were, or may have been used to contain a regulated substance. A regulated substance is defined as a petroleum based product or solvent; a CAA Section 112(r) substance; or any chemical included on the hazardous substance-CERCLA list in the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Gasoline and ethylene glycol are examples of regulated substances. USTs that are not regulated include USTs storing heating oil for consumptive use on the premises where the tank is tocated, USTs holding a regulated hazardous waste (see Chapter 2.3.1), and USTs with a capacity of 1,100 gallons or less used for non-commercial purposes. Other requirements concerning the location of USTs, fire extinguishers, and related equipment used for dispensing fuel and providing collision protection can be found in the Storage and Handling of FUCL Rules administered by the STD.

Includes examples

4.1.1 Registration

All regulated USTs must be properly registered with the STD. You must complete a "Registration for Underground Storage Tanks (EQP 3821)" and submit a \$100-per-tank fee. The tank fee is paid annually to the STD. A UST discovered during tank removal and renovation must also be registered with the STD. You must send an amended form to the STD any time the registration information changes. The registration form must be submitted within 30 days from the date of the change.

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### **Definitions**

### Terms bolded in the abstract are defined

CHAPTER 7: RELEASE PREVENTION, PLANNING, REPORTING, AND RESPONSE

#### TABLE 7.1 DEFINITIONS OF REGULATED MATERIALS

CAA Section 112(r) Substances	Any of 77 toxic substances and 63 flammable substances regulated under the accident prevention provisions of Section 112(r) of the Clean Air Act (CAA) and listed in Title 40, Part 68 of the Code of Federal Regulations. To obtain a list of CAA Section 112(r) substances, see the "Title III List of Lists" below.
Critical Materials Register (CMR)	A fist of organic and inorganic substances that have been determined to be of high environmental or human health concern. The list was compiled by the DEQ, Surface Water Quality Division, under R 299.9003. To access the CMR, visit the Web site at www.deg.state.mi.us/ead/pub/pubwaste.html.
Extremely Hazardous Substances (EHSs)	Any substance regulated under SARA Title III, Sections 302-304. The EHSs are listed in Appendices A and B of Title 40, Part 355 of the Code of Federal Regulations. To obtain a list of EHSs, see the "Title III List of Lists" below.

### **Publications**

Publications are in quotes and bolded

Contact the Environmental Assistance Center and request a "Recycled Materials Market Directory" or search the various categories on the Internet at www.deq.state.mi.us/ead/recycle to locate companies who accept the materials you collect. If you have materials that are not listed in the directory, you may want to list their availability on material exchanges. Request the EAD fact sheet "Material Exchange: Reduce Disposal Costs, Increase Your Profits" for more information, or directly access the Recycler's World Internet site at ww.recycle.net/recycleexch/index.html. If you do not have access to the Internet, call (800) 662-9278 and ask for the recycling coordinator who will help get your materials listed.

### The Phone Box

Contact the Environmental Assistance Division (EAD), Operator Training Unit at (517) 373-4755 for wastewater operator certification and training information or go to the Internet at www.deq.state.mi.us/ead/tasect/otu for more information. Direct storm water operator certification questions to the Storm Water Program at your SWQD District Office (see Appendix B for phone numbers).



# The Self-Assessment Survey

#### **SECTION ONE - ENVIRONMENTAL REGULATIONS Chapter 1: Air Quality Regulations** Do you have, or intend to install, equipment or processes that generate air □ _{Yes} pollution? (e.g. incinerator, boiler, solvent degreaser, coating booth, grinding 1 1-1 15 continue operations, material storage piles, etc.) □ Yes $\square$ No Do you open-burn any waste? 1.2.3 continue □_{Yes} Have you recently eliminated a source of air emissions through pollution prevention techniques? 1.9 continue □_{Yes} Are you interested in learning about the benefits to be gained through 1.10 environmental stewardship? continue □ Yes Are you renovatin Just answer the questions! 1.14.9 continue

### Acronyms

#### APPENDIX A - ACRONYMS

ADAAmericans with Disabilities Act  ANSIAmerican National Standards Institute  AQDAir Quality Division (of DEQ)  ASTAboveground Storage Tank  ARIAir Conditioning and Refrigeration Institute  ASMEAmerican Society of Mechanical Engineers  ASTMAmerican Society for Testing and Materials  ATPAdvanced Technology Program  AWRAnnual Wastewater Report
BAABroad Agency Announcements BACTBest Available Control Technology BATBest Available Treatment BEABaseline Environmental Assessment BFDBBarrier Free Design Board BCCABuilding Officials and Code Administrators BSRBureau of Safety and Regulation (of CIS) BTUBritish Thermal Units
C3Clean Corporate Citizen Program CAAClean Air Act CAAAClean Air Act Amendments CAAPClean Air Assistance Program (of EAD) CAPCorrective Action Plan

### **Agency Overviews**

### APPENDIX B - OVERVIEW OF THE STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

#### MISSION

The mission of the Department of Environmental Quality (DEQ) is to drive improvements in environmental quality for the protection of public health and natural resources to benefit current and future generations. This will be accomplished through effective administration of agency programs and providing for the use of innovative strategies, while helping to foster a strong and sustainable economy.

#### **OVERVIEW**

The Department of Environmental Quality was created in 1995 by Executive Order No. 1995-18, which transferred environmental regulatory programs from the Department of Natural Resources (DNR) to the newly created Department of Environmental Quality (DEQ). The DEQ and DNR are responsible for the administration of the Natural Resource and Environmental Protection Act, Public Act 451 of 1994, as amended, and the administrative rules promulgated under its authority. In addition to the nine divisions listed below, the DEQ includes an Executive Division, Office of Administrative Hearings, Office of Communications and Education, Office of Criminal Investigations, and Office of the Great Lakes. See Figure B-1.

### Laws and Rules

#### APPENDIX C - FEDERAL AND STATE LAWS AND RULES

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### How to Read a MSDS

#### APPENDIX D - READING A MATERIAL SAFETY DATA SHEET

Michigan's Employee Right-To-Know Law requires that information about hazardous substances found in the work place be made available to exposed employees. Accordingly, employers must have a Material Safety Data Sheet (MSDS) for every hazardous chemical in the work place and make these sheets available to their employees. A proper MSDS lists the content of the product and if any of the ingredients are subject to specific regulations. It also identifies special precautions that should be taken when storing, using, and disposing of the product. An MSDS can be a valuable reference tool; however, it should not be considered a complete source of information about the product since all information may not be included. For instance, an MSDS is not reliable if used to determine the presence of hazardous waste because it does not include information about the contaminants that might be found in the used product.

Each MSDS must include the same basic information; however, the format can vary from one manufacturer to another. You can obtain an MSDS from your supplier or you may order them from the manufacturer's technical or customer service departments. Product labels should include the manufacturer's name and address and/or telephone number so you can contact them to request an MSDS or additional information about the product. Many MSDSs can also be accessed on the Internet. The MSDS Resource Library (www.reade.com/MSDS_Links.html) provides several links to MSDS Internet sites. In addition, the Vermont Safety Information Resources Inc. Internet site, located at www.siri.org/msds/index.html, can help you find MSDSs directly using the CAS number, company, or product name.

### Index

#### SUBJECT INDEX

The subject index has been developed to assist you in finding regulatory and pollution prevention information contained within the guidebook. The various statutes and rules are not included in the index. If you need assistance in locating them, see Appendix C. Federal and State Laws and Rules.

The terms identified in the subject index fall under the following categories:

- Regulatory activity (e.g., record keeping and reporting)
- Pollutant (e.g., hazardous substance and toxic air contaminant)
- Materials (e.g., solvents and batteries)
- Regulated media (e.g., storage tanks and wetlands)
- Regulatory terms (e.g., identification number and boiler permit).

#### Α

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### Training - Manufacturers

- Statewide
- School Theme



- Morning: Environmental Regs
- Afternoon: Health & Safety Regs

### **Training - State Agencies**

- DEQ District Offices
- Lansing Supervisors
- CIS Staff





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